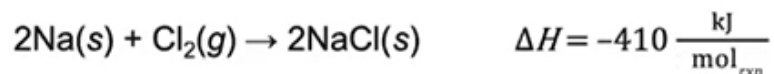


AP Chemistry Daily Videos

9.2 Absolute Entropy and Entropy Change

Video #1

1. What are the units for entropy values?
2. What is the equation used to calculate the entropy change of a process?
3. Pause the video @ 3:00 and try the problem on your own. Then evaluate your work and identify any errors you may have made.



Answer the following questions about the reaction above at 298 K.

	Absolute Entropy at 298 K ($\frac{\text{J}}{\text{K}\cdot\text{mol}}$)
Na(s)	51.1
Cl ₂ (g)	223.1
NaCl(s)	72.1

- (a) Predict the sign of ΔS° for this reaction. Justify your answer.
- (b) Using the information in the table to the left, calculate the value of ΔS° for the reaction.

4. What are the takeaways?